

EXPRESS MAIL LABEL NO. EL470370763US

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Assistant Commissioner for Patents
Washington, D. C. 20231

jc781 U.S. PTO



03/16/00

DOCKET NO. BLD9-1999-0018US1

Sir:

Transmitted herewith for filing is the patent application of:

INVENTOR(S): Reinhard H. HOHENSEE, Harry R. LEWIS, Jr., David E. STONE

TITLE: REMOTE NOTIFICATION OF PRINT OR FAX HARDCOPY RECIPIENT
USING STANDARD IDENTIFICATION DATA

jc525 U.S. PTO
09/526622
03/16/00

In connection with this application, the following are enclosed:

- 20 Pages of Specification, Claims and Abstract
- 23 Claims
- 5 Sheets of Drawings (FIGS. 1-6)
- XX Declaration, Power of Attorney
- XX Information Disclosure Statement, Form PTO-1449 w/ 8 references
- XX Assignment to: International Business Machines Corporation

The fee has been calculated as shown below. (Small entity fees indicated in parentheses.)

(1) For	(2) Number Filed		(3) Number Extra	(4) Rate	(5) Basic Fee \$690 (\$345)
Total Claims	23	20	3	\$18 (\$9)	54
Independent Claims	5	3	2	\$78 (\$39)	156
Multiple Dependent Claims			0	\$270 (\$135)	0
Assignment Recording Fee				\$40	40
TOTAL FEE:					\$ 940

XX Enclosed are checks in the amount of \$900.00 and \$40.00 for the government filing fee and assignment recordation fee.

XX The Commissioner is hereby authorized to charge payments of (1) any additional filing fees required under 37 CFR 1.16, and/or (2) any patent application processing fees under 37 CFR 1.17 associated with this application or credit any overpayment to Deposit Account No. 50-0601.

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03-17-00

A

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: : Atty Docket: BLD9-1999-0018US1
Reinhard H. HOHENSEE *et al.* : APPLICATIONS BRANCH
Serial No. (not yet assigned) :
Filed: HEREWITH :
FOR: REMOTE NOTIFICATION OF PRINT OR FAX HARDCOPY
RECIPIENT USING STANDARD IDENTIFICATION DATA

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CERTIFICATE OF EXPRESS MAIL MAILING

"Express Mail" Mailing Label No. **EL470370763US**
Date of Deposit: March 16, 2000

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

SIR:

I hereby certify that

☒ Application Transmittal
☒ Specification, Claims, Abstract
☒ 1 set of 5 sheets of drawings
☒ Declaration and Power of Attorney
☒ Information Disclosure Statement; Form PTO-1449 w/ 8 refs.
☒ Assignment
☒ 2 Checks
☒ Return postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to:

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Kathleen Smith
Name of person mailing papers
Kathleen Smith
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DATE MAILED: March 16, 2000

PATENT

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REMOTE NOTIFICATION OF PRINT OR FAX HARDCOPY RECIPIENT USING
STANDARD IDENTIFICATION DATA

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CROSS-REFERENCE TO RELATED APPLICATIONS

Not Applicable.

FIELD OF THE INVENTION

This invention generally relates to collecting personal identifying information from users receiving output at data output devices, and transmitting personal identifying information back to the source of the data. The invention more particularly relates to the use of portable electronic devices entering the personal identifying information which is received at the data output device and sent back to the data source.

BACKGROUND OF THE INVENTION

Current computer networks provide the ability to easily access data stored on multiple computers connected to the network, and to cause the data to be output, e.g., printed, on multiple output devices connected to the network. This versatility also reduces (to some extent) accountability for use of information stored on the system. Data stored on the computer systems can be accessed and outputted (e.g., printed) from multiple physical locations.

A computer network may comprise display terminals, printers, and fax machines, as output devices. The computers in network convert data received into a format appropriate for output devices such as a fax machine.

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Although computer networks are useful, there are problems regarding the security of certain information during remote output and the accountability of persons receiving output data. The problems of security and accountability are separate and distinct problems. One known solution to the problem of security during remote data output requires a user ID and password to be entered into a computer before documents are accessed. Once the documents have been accessed, they can be freely sent to an output device, e.g., a printer.

Another solution to the problem of security during remote data output is disclosed in U.S. Patent No. 5,752,697 by Barry P. Mandel et al. for "Remote Printing Job Confidentiality" issued on May 19, 1998. A system is disclosed in which system electronic print jobs from different users at different locations may be electronically sent to be printed, and hard-copy print jobs are automatically fed into respective selected lockable physical mailboxes. Entry to the physical mailbox is actuated by entry of an authorized jam clearance access code.

Still, another solution to the problem of security during remote data output is disclosed by U.S. Patent No. 5,633,932 by Derek L. Davis et al. entitled "Apparatus and Method for Preventing Disclosure Through User-Authentication at a Printing Node" issued May 27, 1997. This patent discloses one or more types of security devices, such as smart cards, data entered by the user through a keyboard, and biometric data. Similarly, U.S. Patent No. 5,771,101 by Roy Bramall for "Data Security System" issued June 23, 1998 discloses a system which records outputted data along with user identification information in a data recording system which may be subsequently accessed to conduct security audits.

In the case of computer systems being used as a communication systems, the transmitted information may include security provisions such as those described above at the receiving end. These security provisions, although useful, do not address the problems of accountability of a person receiving output data. Accordingly, there is a need to provide the identity of the person receiving data.

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Also, there is a class of output data or documents which is sensitive in that it is restricted to a range of recipients (within a specific office, for example) but which, due to the environment, would not be a candidate for targeting to a specific individual. Typically, such data, sent to a particular remote output device may be accessed or retrieved by anyone at a respective location without any identification or knowledge of the person retrieving the document. This is especially true where the only security required is access to the restricted area where a particular printer or fax or some other recipient output device may be placed.

Aside from the issue of misappropriation, there are often a variety of business and legal reasons to maintain a record of who has produced an output of certain documents. For example, in a business context, an author or sender of a document may want to have proof that the intended recipient received a document (e.g., a statement of company policies). Such a document does not call for security restrictions. Rather, there is a need to confirm that a specific person output the document, so that it can be known that the recipient had been put on notice as to the information conveyed.

What is needed is a system which determines the identity of a person or persons receiving information output at an output device, and sends that data back to the sender.

What is further needed is a system which collects descriptive data about a person or persons accepting output data at an output device, and conveys the descriptive data back to a party who sent the output data.

What is still further needed is a system which collects descriptive data about a person or persons, accepting output data at an output device, and conveys the descriptive data back to a third party designated by the person outputting the data.

SUMMARY OF THE INVENTION

According to the inventive principles as disclosed in connection with a preferred embodiment, a record may be made showing the party retrieving a document sent to a

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remote location over a two-way communication system, directly in response to standard identifying information, without the corroboration or verification of a password and without any need for encryption. The invention, according to the inventive principles, may be used with any kind of two way communication system, whether local or world wide through the Internet, and including wireless systems, circuit switched telephone systems, cable or fiber optic systems. Use of the method or system, according to the inventive principles disclosed, allows a record or trail to be established by standard identity data, leading to the party who was the one actually accessing or retrieving a remotely delivered document. This record or trail is particularly useful as it can be used with any document, in any form, whether in a data file such as a word processing file or data base file, spread sheet file, or, without limitation, in any other form, as would be known to those skilled in the art or which may be developed, and whether or not encrypted, encode, or otherwise limited to named identified parties permitted access to the document. The inventive principles may be applied to any remote document delivery system, such as for example, a printer, facsimile, or computer processor having a data store or a display, or any other kind or type of device, capable of receiving information, storing the information, and then displaying the information in a temporary display or in a human readable printed version, and as would be known to those skilled in the art, presently or as may be developed.

BRIEF DESCRIPTION OF THE DRAWINGS

The subject matter which is regarded as the invention is particularly pointed out and distinctly claimed in the claims at the conclusion of the specification. The foregoing and other objects, features, and advantages of the invention will be apparent from the following detailed description taken in conjunction with the accompanying drawings.

FIG. 1 shows a schematic of a computer system according to an embodiment of the invention.

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Aside from the issue of misappropriation, there are often a variety of business and legal reasons to maintain a record of who has produced an output of certain documents. For example, in a business context, an author or sender of a document may want to have proof that the intended recipient received a document (e.g., a statement of company policies). Such a document does not call for security restrictions. Rather, there is a need to confirm that a specific person output the document, so that it can be known that the recipient had been put on notice as to the information conveyed.

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BRIEF DESCRIPTION OF THE DRAWINGS

The subject matter which is regarded as the invention is particularly pointed out and distinctly claimed in the claims at the conclusion of the specification. The foregoing and other objects, features, and advantages of the invention will be apparent from the following detailed description taken in conjunction with the accompanying drawings.

FIG. 1 shows a schematic of a computer system according to an embodiment of the invention.

FIG. 2 shows a schematic of a smart card used in connection with an embodiment of the invention.

FIG. 3 is a flow diagram of a program executed by the smart card shown in FIG. 2.

FIG. 4 is a flow diagram of a process for obtaining personal identification information from a person receiving a file output.

FIG. 5 is a flow diagram of a process for displaying personal identification information.

FIG. 6 is a schematic form a VCard and in particular the information which may be contained on a VCard to identify the bearer of the Vcard and which may be used in the output device of FIG. 1.

DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

However, it should be understood that these embodiments are only examples of the many advantageous uses of the innovative teachings herein. In general, statements made in the specification of the present application do not necessarily limit any of the various claimed inventions. Moreover, some statements may apply to some inventive features but not to others. In general, unless otherwise indicated, singular elements may be in the plural and visa versa with no loss of generality.

Referring to FIG. 1, a computer system used in connection with an embodiment of the invention is shown. A client computer 101 is connected to an output device control server 105 through a bidirectional data link 103. The output device control server 105 is connected through a bidirectional data link 107 to an output device 109. The output device 109 may take the form of printer, FAX machine, memory medium write device, display screen, or any other kind or type of device, capable of receiving information, storing the information, and then displaying the information in a temporary display or in a human readable printed version, and as would be known to those skilled in the art, presently or as may be developed.

The output device 109 is connected by a bidirectional data link 111 to a communication interface 113. The communication interface 113, can be temporarily coupled to a personal physical identification device 117 in order to receive data therefrom through a temporary bidirectional data link 115.

5 In another embodiment, the function of the server 105 is combined with the output device 109 into a output single device with local storage for holding file data for later output.

10 The bidirectional data links shown in FIG. 1: 103, 107, 111, 115 may use a variety of different protocols. Some of the data links may comprise a local area network (LAN), operating on Ethernet protocol for example, whereas one or more of the bidirectional data links may be external to, yet connected with the LAN. For example, in the case of remote client computer, 101 parts of the bidirectional data link 103, may be comprise parts of the Internet communication infrastructure, leased line, or parts of the public telephone system, including wireless systems. The communication protocols used in different layers of the communication protocol stack can also vary.

15 In the case the output device 109, is a printer or a FAX machine, the communication protocol used is advantageously a bidirectional communication protocol such as IPP, IFAX, or the Intelligent Printer Data Stream (IPDS). These protocols could be extended to handle the new authentication data or another communications protocol that is extensible may be employed.

20 The data link 111 between the output device 109 and the communication interface 113, in one embodiment, comprises a serial port adapter or a parallel port adapter for example. The output control device in one embodiment is a micro-controller (i.e. microprocessor with associated memory and input/output (I/O) interface) integrated into a so-called "smart" printer.

25 Referring to FIG. 2 a personal physical identification 117A is shown in the form of a smart card incorporating a Java enabled ibutton. The smart card is card sized device comprising a microprocessor, Read Only (ROM) memory, Random Access (RAM) memory

and an I/O means used for business and financial communication. An ibutton is a tamper proof secure microprocessor/memory device made by Dallas Semiconductor of Dallas, Texas which is suitable for use in the smart card shown in FIG. 2. A Java enabled ibutton is an ibutton loaded with a form of the Java Virtual Machine. A Java Virtual Machine is a collection of software routines that are written for a particular processor architecture, providing a standardized interface to the underlying architecture for programs written in the Java language. The Java programming language is a product of Sun Micro Systems of Palo Alto, California. The smart card 117A comprises a microprocessor 203, Non-Volatile Random Access Memory (NVRAM) 205, Read Only Memory (ROM) 207, and a 1-wire I/O interface. The 1-wire I/O bus is a standard developed by Dallas Semiconductor. Computer code embodying the Java Virtual Machine 211 is stored in ROM 207. A VCARD application program 215 is stored in the NVRAM. In the case of ibutton smart card, the communication interface 123 would take the form of Blue Dot interface. The Blue Dot interface has one 1-wire I/O port for connecting to the ibutton, and one serial or parallel port for connection to the output device 109. The Blue Dot interface is a product of Dallas Semiconductor.

Although a smart card has been shown in FIG. 2, it may be desirable to incorporate the functional components described in connection with FIG. 2 into a different type of article, more convenient and personal to the user such as a Radio Frequency ID (RFID), Java Ring or other portable device. For example a Java Ring is a ring that can be worn by a user and incorporates a Java Enabled iButton such as discussed in connection with FIG. 2. A Java enabled ibutton could also be incorporated into a key chain.

The present invention, as would be known to one of ordinary skill in the art could be produced in hardware or software, or in a combination of hardware and software. The system, or method, according to the inventive principles as disclosed in connection with the preferred embodiment, may be produced in a single computer system having separate elements or means for performing the individual functions or steps described or claimed or one or more elements or means combining the performance of any of the functions or

steps disclosed or claimed, or may be arranged in a distributed computer system, interconnected by any suitable means as would be known by one of ordinary skill in art.

According to the inventive principles as disclosed in connection with the preferred embodiment, the invention and the inventive principles are not limited to any particular kind of computer system but may be used with any general purpose computer, as would be known to one of ordinary skill in the art, arranged to perform the functions described and the method steps described. The operations of such a computer, as described above, may be according to a computer program contained on a medium for use in the operation or control of the computer, as would be known to one of ordinary skill in the art. The computer medium which may be used to hold or contain the computer program product, may be a fixture of the computer such as an embedded memory or may be on a transportable medium such as a disk, as would be known to one of ordinary skill in the art.

The invention is not limited to any particular computer program or logic or language, or instruction but may be practiced with any such suitable program, logic or language, or instructions as would be known to one of ordinary skill in the art. Without limiting the principles of the disclosed invention any such computing system can include, inter alia, at least a computer readable medium allowing a computer to read data, instructions, messages or message packets, and other computer readable information from the computer readable medium. The computer readable medium may include non-volatile memory, such as ROM, Flash memory, floppy disk, Disk drive memory, CD-ROM, and other permanent storage. Additionally, a computer readable medium may include, for example, volatile storage such as RAM, buffers, cache memory, and network circuits.

Furthermore, the computer readable medium may include computer readable information in a transitory state medium such as a network link and/or a network interface, including a wired network or a wireless network, that allow a computer to read such computer readable information.

Referring to FIG. 3 a flow diagram of the VCARD application program is shown. In the first block 301, a request for personal identifying information is received through the 1-

5 wire I/O. In the second block 303 personal identifying information is sent out through the
1-wire I/O. The information is preferably in the VCARD format. The VCARD format is
defined by a standard for presenting personal identifying information supported by the
Versit Consortium, an industry group. The VCARD format provides a standardized format
10 for communicating a variety of non confidential information about a person, including, but
not limited to, such information as would be contained on a printed business card. Some
data items that may be included according to the standard are the persons named in
various formats, addresses, different phone numbers along with indications of what they
are (e.g. fax, work). According to the standard non-character data for example an audio
file giving the pronunciation of the users name, or a graphic file containing a picture of the
15 person, may also be included. In order to include non-character data in the VCARD it is
character encoded. One standard for character encoding is called Base64 encoding.
Base64 encoding converts each consecutive group of six bits into a character specified in
a table given by the standard. The VCARD data is formatted along with field names, and
data format indicating information. Certain data items may be included by reference to a
universal resource identifier (URI) contained in the VCARD in lieu of the data itself. The
VCARD specification, copyrighted in 1996 may be found on the Internet at:
http://www.imc.org/pdi/vcard-21.txt, and is hereby incorporated herein by reference in its
entirety. The VCARD specification is open in that it allows for additional fields of
20 information to be included according to the design the implementation. In another
embodiment the disclosed principles of the invention, the identifying data may be combined
with data indicative of the time or place of data access.

FIG. 4 depicts a flow diagram according to an embodiment of the invention from the
perspective of the output device control server 105, shown in FIG. 1. In process block 401,
25 a file is received for outputting from the client computer 101, at the output device control
server 105. The file is sent along with information identifying its source (e.g. a network
address and/or sending parties personal identification (e.g. information including an email
address)). In the next process block 403, the file is held in the output device control server
105. In the next process block 405, a users request for outputting the file is received e.g.

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via a graphical user interface (GUI) of the output device control server 105. In the next process block, 407 the user is prompted to present/connected physical identification. In the next process block 409 personal physical identification is read.

It is important to note, that in another embodiment, the process blocks 405 and 407 are optional and the output file is held at the output device 109 locally, rather than requesting the file from the server 105.

In the case of a smart card 117A, the user will insert the smart card 117A, into communication interface 113. A signal requesting personal identifying information is then sent to the Smart Card 117A, and the Smart Card 117A carries out the flow diagram depicted in FIG. 3. The file is then sent in block 411 through output device 109.

The system and the method according to the disclosed inventive principles may be used, for example within the VCard format shown in a schematically represented VCard shown in FIG. 6. Such information is typically limited to general information such as, name, all relevant addresses and phone numbers, all relevant multimedia data and audio data, without regard to encryption or passwords or special codes for authentication of the identity of the party accessing the document from the output device 109 of FIG. 1.

In the process block 415, a record is generated which comprises information regarding the file (e.g. a filename, creation date) and personal identifying information obtained from the personal physical identification 117 of the user received in process block 409. As discussed above in connection with FIG. 2, the personal physical identification could be a smart card 117A which sends personal identifying information (in step 303, FIG. 3) through the communication interface 113 to the output device 109. The record is then sent from the output device control server 105, back to the source of the file which is known from the information identifying the source sent along with the file. The record may be sent directly back to a specific computer specified by a network address, or the record may be sent back to a user via an email system depending on format used to identify the source.

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In the embodiment where the output device 109 and the output device control server 105 are not combined in one integrated unit, the personal identification is sent from the output device 109 to the server 105 via link 107.

According to later embodiments, the invention provides an electronic return receipt, that is it provides the sender of the file with personal identifying information of the person who accepted the output. The intended recipient may be the sender e.g. in the case where a sender sends a confidential print job to a networked group printer, or a second person with whom the sender intends to communicate.

Referring to FIG. 5 a flow diagram of process run on client computer 101 is shown. In the first process block 501, the record sent in process block 419 from the output device control server 105, comprising personal identifying information and identification of the output file is received at the client computer 101. In the next process block 503, the personal identifying information is displayed on a display device (not shown) associated with the client computer 101. The information may be displayed in association with the name of the output file. For example in the case of printer type output device 109, the information may be displayed in a dialog box on a display screen of the client computer 101, generated by a print manager program running on the client computer 101.

In still another embodiment, where the output device 109 is a printer includes an error-knowledgeable system, such as IBM's industry standard Intelligent Printer Data Stream, the information is sent back from the output device 109 to client computer 101 could include a report of any errors encountered while printing and how many pages actually printed.

The client computer may for example comprise a client computer 101, and the output device control computer 105, may for example comprise a microprocessor-based system running a suitable operating system. Operating systems include DOS, Windows 3.1/95/98/NT, Linux, Unix, Macintosh, OS/2 and comprising microprocessor; Basic Input Output System read only memory (BIOS ROM) Random Access Memory (RAM); hard disks, removable media drive, e.g. Compact Disk Read Only Memory (CD-ROM) drive, 3.5

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MB disk drive; communication device e.g. network card or modem; monitor, video driver board, keyboard.

Although a specific embodiment of the invention has been disclosed, it will be understood by those having skill in the art that changes can be made to this specific embodiment without departing from the spirit and scope of the invention. The scope of the invention is not to be restricted, therefore, to the specific embodiment, and it is intended that the appended claims cover any and all such applications, modifications, and embodiments within the scope of the present invention.

What is claimed is:

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CLAIMS

1 1. A system to notify remote output by an authenticated recipient to a designated party
2 comprising:

3 an interface to a receiver for receiving a file with authentication data from a remote
4 system;

5 an input for receiving identification information from an authenticated recipient;

6 a comparator for comparing if said identification information from said authenticated
7 recipient is matched to at least part of said authentication data in said file;

8 an interface to an output for sending said file to an output device if said identification
9 data from said authenticated recipient is matched to at least part of said authentication
10 data in said file; and

11 an interface to transmitter for sending a notification of the output of said file to said
12 output device to at least one designated party if said identification data from said
13 authenticated recipient is matched to at least part of said authentication data in said file.

1 2. The system of claim 1, wherein said designated party is a party sending said file on
2 a remote system.

1 3. The system of claim 1, wherein said file further comprises data indicating at least
2 one designated party.

1 4. The system of claim 3, wherein said interface to transmitter includes means for
2 sending notification of the output of said file to said output device to one designated party
3 in said data in said file.

1 5. The system of claim 1, wherein said notification includes a date and time said file
2 is sent to said output device.

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- 1 6. The system of claim 1, wherein said notification includes a location date and time
- 2 said file is sent to said output device.

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1 7. A document retrieval system for accessing a printed document and transmitting
2 back, the identifying data of a party accessing or making a copy of a document,
3 comprising:

4 means for transmitting a document in data form to a means for receiving said
5 document in data form;

6 means for receiving identifying data and transmitting said identifying data to said
7 means for receiving said document in data form; and

8 said means for receiving said document in data form including means for printing
9 said document directly in response to said identifying data.

1 8. The system of claim 7; wherein:

2 said means for receiving said document in data form including means for sending
3 to said means for transmitting a document in data form, said identifying data.

4 9. The system of claim 7, wherein, said identifying data is in a predetermined format,
5 and said means for printing is directly responsive to said identifying data in said
6 predetermined format.

7 10. The system of claim 7, wherein said means for receiving said document in data
8 form, includes a storage device for storing said document and said document is accessed
9 from said storage device in response to said identifying data.

1 11. The system of claim 7, wherein said identifying data is in VCard format.

1 12. The system of claim 7, including a portable device for storing said identifying data.

1 13. The system of claim 12, wherein said portable device is a smart card.

1 14. The system of claim 12, wherein said portable device is a JAVA ring.

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1 15. The system of claim 8, wherein said said identifying data includes time of access
2 data.

1 16. The system of claim 8, wherein said, identifying data includes place of access data.

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1 17. A method for retrieving a document and for transmitting back, the identifying data
2 of a party accessing or making a copy of a document transmitted through a two way
3 telecommunications system, comprising the steps of:

4 transmitting a document from a systems device through a two way
5 telecommunications system to a presentation device;

6 storing said document in said presentation device;

7 as a first step in accessing a copy of said document, inputting at said presentation
8 device, identifying data indicative of the identification of a party accessing the document;

9 as a second step in accessing a copy of said document, and directly responsive to
10 said identifying data, producing a print command;

11 as a third step, producing a copy of said document, in direct response to said print
12 command, and

13 as a fourth step, producing a record of said the identifying data used to produce said
14 print command, and transmitting said record.

1 18. The method of claim 17, wherein said identifying data is in a predetermined format
2 and said step of producing said print command includes the step of producing said print
3 command in direct response to receiving said data in said predetermined format.

1 19. The method of claim 18, wherein said predetermined format is the VCard format.

1 20. The method of claim 19, wherein said steps of producing a record and a transmitting-
2 said record includes the step of producing and transmitting a record of said identifying
3 data with time of excess data.

1 21. The method of claim 17, wherein said steps of producing a record and a transmitting-
2 said record includes the step of producing and transmitting a record of said identifying data
3 with place of access data, to said first system.

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1 22. A computer readable media comprising programming instructions performing the
2 method of retrieving a document and for transmitting back, the identifying data of a party
3 accessing or making a copy of a document transmitted through a two-way
4 telecommunications system, comprising the programming instructions of:

5 transmitting a document from a system through a two way telecommunications
6 system to a presentation device;

7 storing said document in said presentation device;

8 as a first step in accessing a copy of said document, inputting at said presentation
9 device, identifying data indicative of the identification of a party accessing the document;

10 as a second step in accessing a copy of said document, and directly responsive to
11 said identifying data, producing a print command;

12 as a third step, producing a copy of said document, in direct response to said print
13 command, and

14 as a fourth step, producing a record of said the identifying data used to produce said
15 print command, and transmitting said record.

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1 23. A computer program comprising programming instructions for the operation of a
2 document retrieval system for accessing a printed document and transmitting back, the
3 identifying data of a party accessing or making a copy of a document transmitted through
4 a two way telecommunications system, comprising the programming instructions of:
5 transmitting a document in data form through said two way telecommunications
6 system to a means for receiving said document in data form; and
7 receiving identifying data and printing said document directly in response to said
8 identifying data.

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ABSTRACT OF THE DISCLOSURE

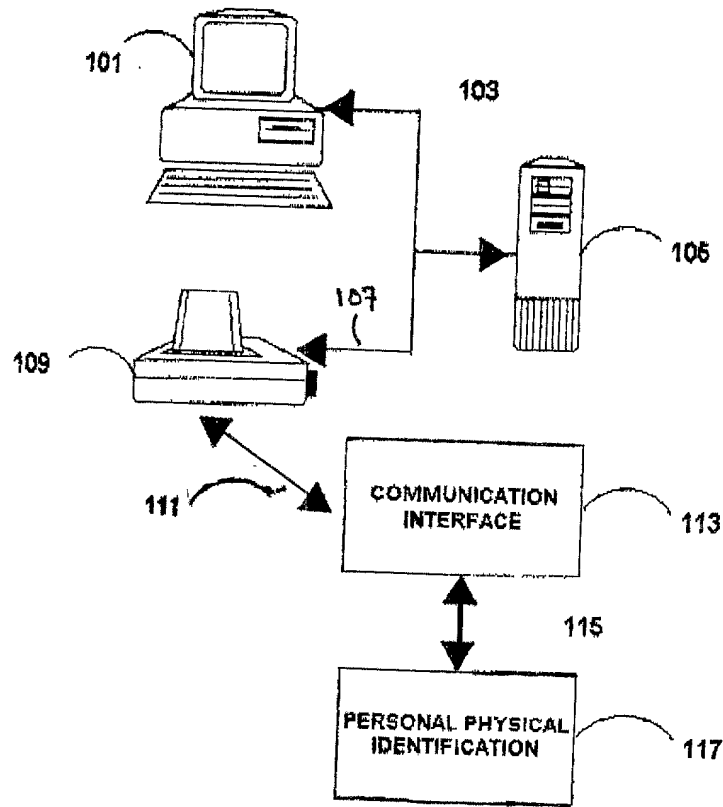
Personal identifying information is obtained from a person receiving information content via an output device and sent back to the source of the information e.g. the sender.

5 The personal information such as that in VCARD format is entered by the person receiving the document from a smart card or similar device. The system offers confirmation to users of computer communication systems as to the identity of the recipient of information they have transmitted over the system.

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FIG. 1



NAME // ADDRESS // PHONE NUMBERS // MULTIMEDIA DATA // AUDIO

601

FIG. 6

FIG. 2

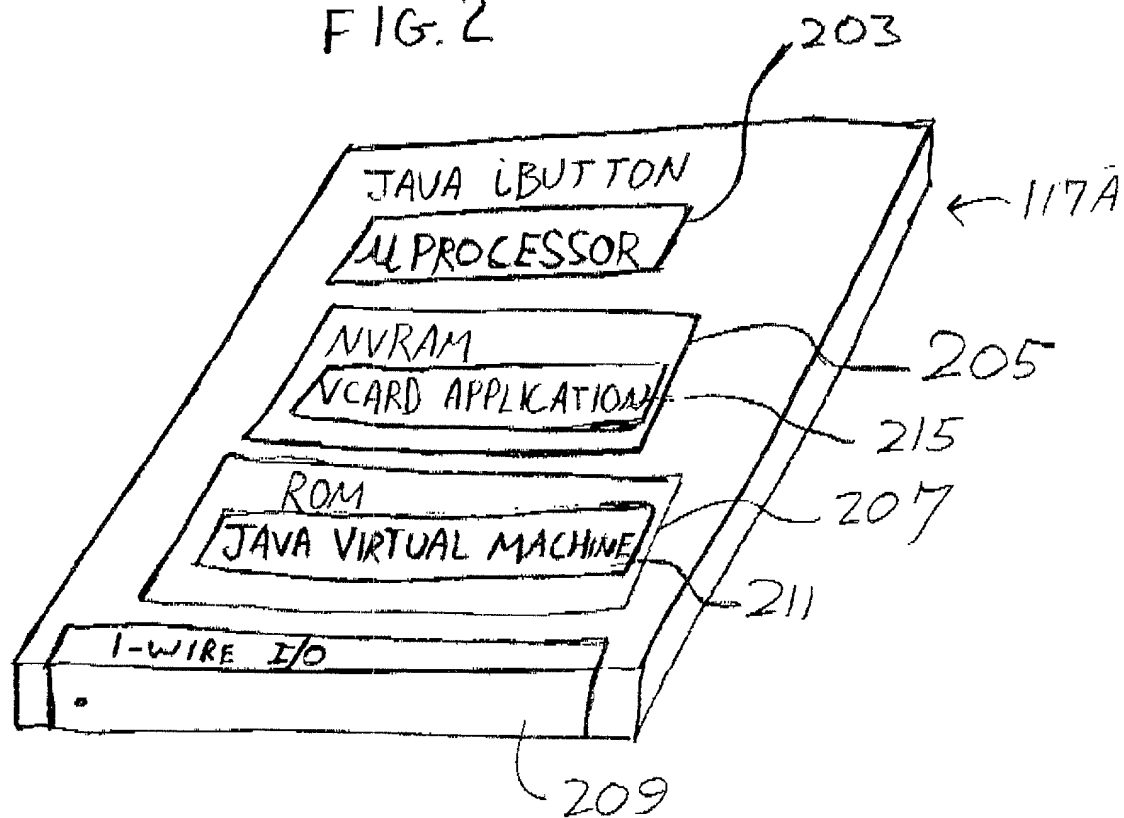
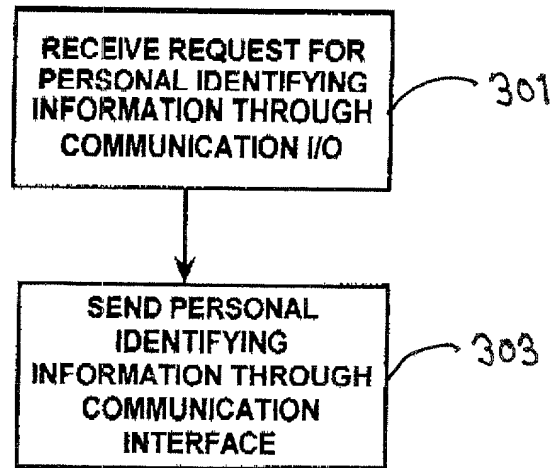
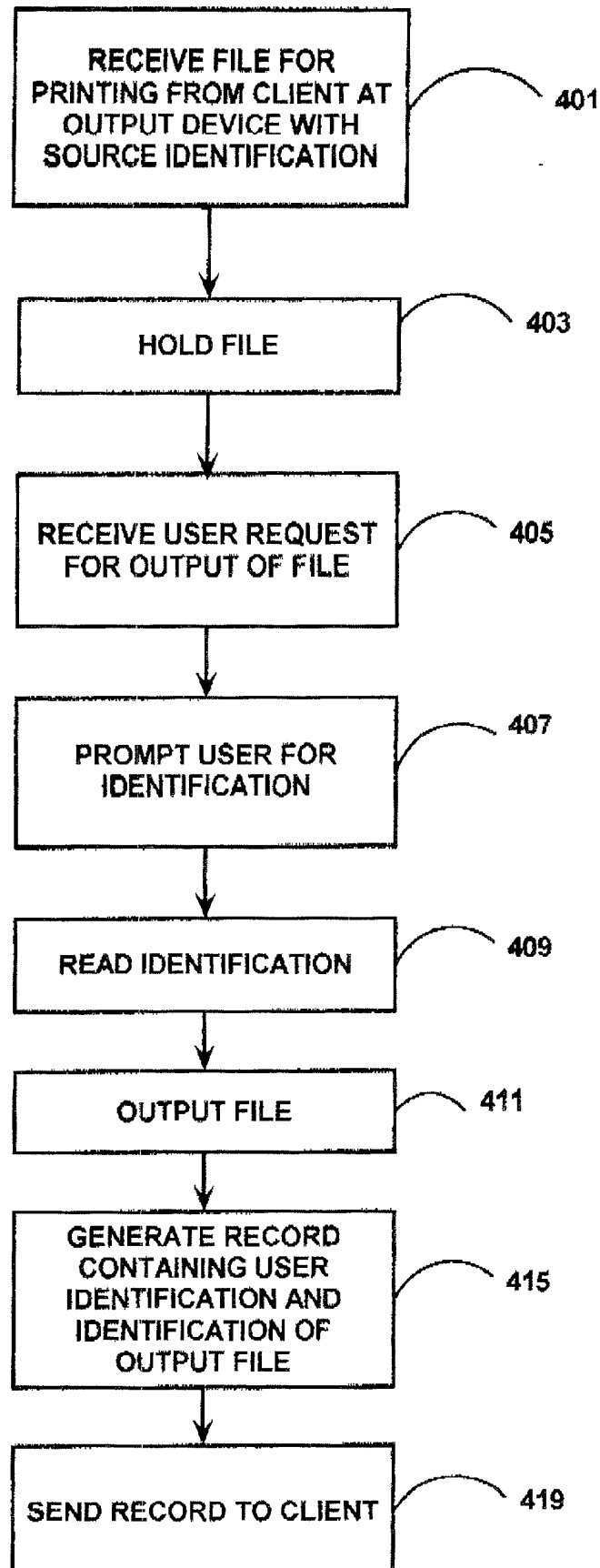


FIG. 3



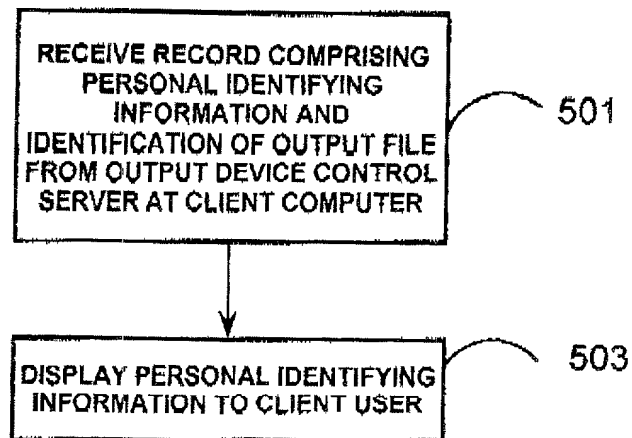
009TE0-22992560

FIG. 4



0091E0-22992560

FIG. 5



0097ED-22992560

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

REMOTE NOTIFICATION OF PRINT OR FAX HARDCOPY RECIPIENT USING STANDARD IDENTIFICATION DATA

the specification of which: (check one)

XXX is attached hereto.

_____ was filed on _____
under Attorney's Docket Number _____
as Application Serial No. _____
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR 1.56.

I hereby claim the benefit of foreign priority under 35 USC 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application the priority of which is claimed:

Prior Foreign Application(s):

Priority Claimed

(Number) (Country) (Filing Date) _____ Yes _____ No

I hereby claim the benefit of United States priority under 35 USC 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose information material to the patentability of this application as defined in 37 CFR 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial #) (Filing Date) (Status)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

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